

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,424,856 B2  
APPLICATION NO. : 10/525565  
DATED : September 16, 2008  
INVENTOR(S) : Werner Brennwald et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

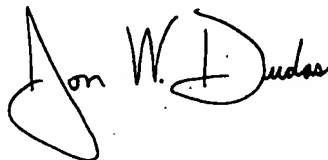
The title page should be deleted to appear as per attached title page.

The sheets of drawings consisting of figures 1-13 should be deleted to appear as per attached figures 1-13.

This certificate supersedes the Certificate of Correction issued November 25, 2008.

Signed and Sealed this

Twenty-third Day of December, 2008

A handwritten signature in black ink, appearing to read "Jon W. Dudas". The signature is stylized with a large, looped initial "J" and a distinct "D" at the end.

JON W. DUDAS  
*Director of the United States Patent and Trademark Office*

(12) **United States Patent**  
**Brennwald et al.**

(10) Patent No.: **US 7,424,856 B2**  
 (45) Date of Patent: **Sep. 16, 2008**

(54) **GRATE ELEMENT FOR A GRATE OF A WASTE COMBUSTION INSTALLATION**

(75) Inventors: **Werner Brennwald, Neftenbach (CH); Manfred Wider, Uster (CH); Fritz Weber, Netstal (CH)**

(73) Assignee: **Von Roll Umwelttechnik AG (CH)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 397 days.

(21) Appl. No.: **10/525,565**

(22) PCT Filed: **Aug. 22, 2003**

(86) PCT No.: **PCT/EP03/09323**

§ 371 (c)(1),  
 (2), (4) Date: **Feb. 25, 2005**

(87) PCT Pub. No.: **WO2004/025181**

PCT Pub. Date: **Mar. 25, 2004**

(65) **Prior Publication Data**

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(30) **Foreign Application Priority Data**

Aug. 29, 2002 (EP) ..... 02405738

(51) Int. Cl.  
**F23H 7/08 (2006.01)**

(52) U.S. Cl. .... 110/281; 110/258; 110/291

(58) Field of Classification Search ..... 110/281,  
 110/257, 258, 267, 268, 282, 283, 284, 289;  
 110/290, 291, 296

See application file for complete search history.

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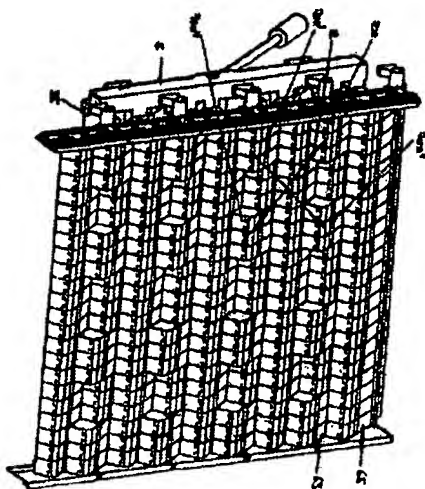
\* cited by examiner

Primary Examiner—Kenneth B Rinehart  
 (74) Attorney, Agent, or Firm—Hershkovitz & Associates, LLC; Abe Hershkovitz

(57) **ABSTRACT**

The present invention relates to a grate element (1) for a grate of a waste-incineration plant, having a plurality of rows of grate blocks, which are moveable or fixed, arranged one behind the other, a plurality of grate blocks (67) being arranged in each row of grate blocks. A first number of grate blocks arranged in a moveable row of grate blocks here is assigned to a first grate carriage (5), and a second number of grate blocks arranged in a moveable row of grate blocks is assigned to a second grate carriage (35), it being possible for the first number of grate blocks to be moved independently of the second number of grate blocks.

**3 Claims, 7 Drawing Sheets**



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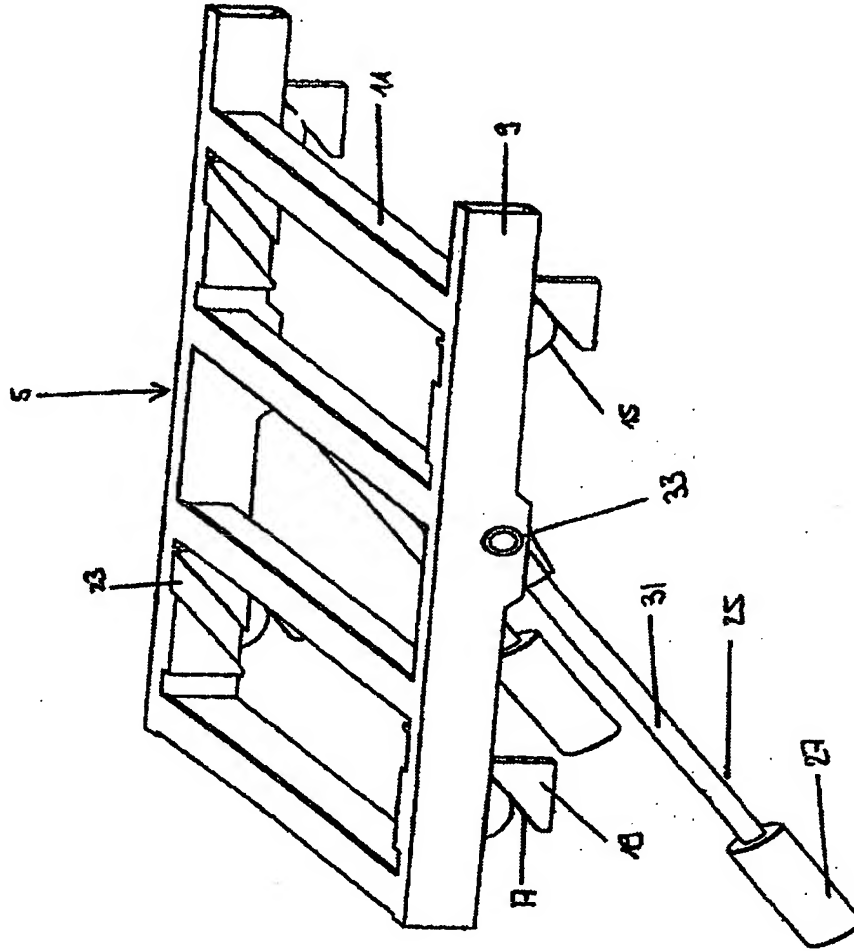


FIG. 1

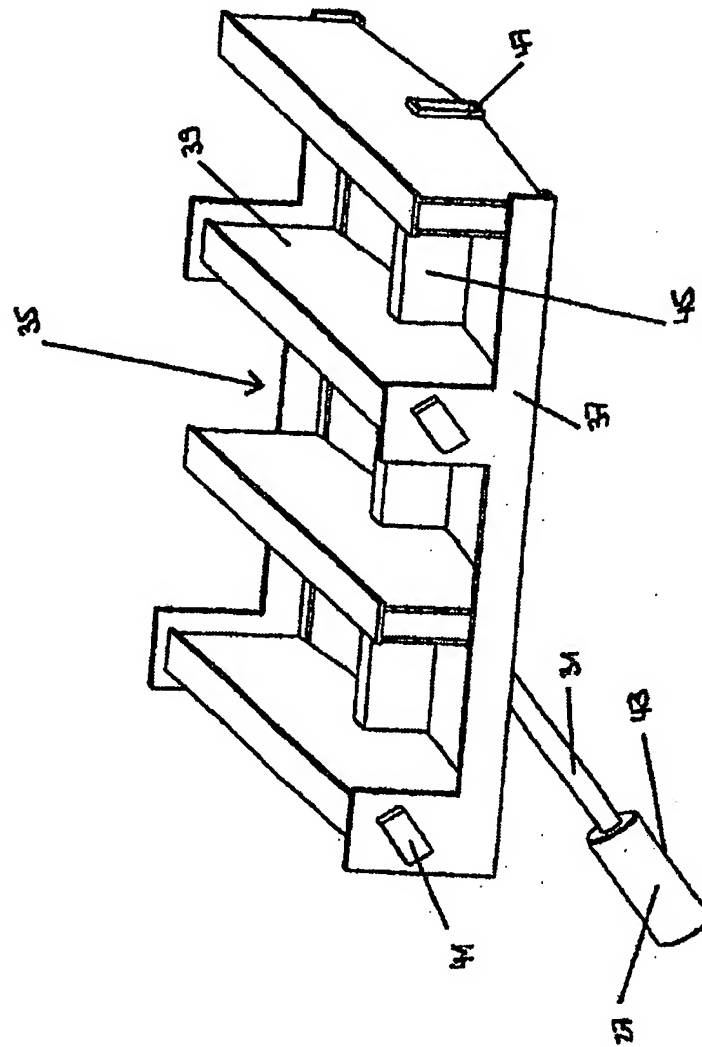
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FIG. 2



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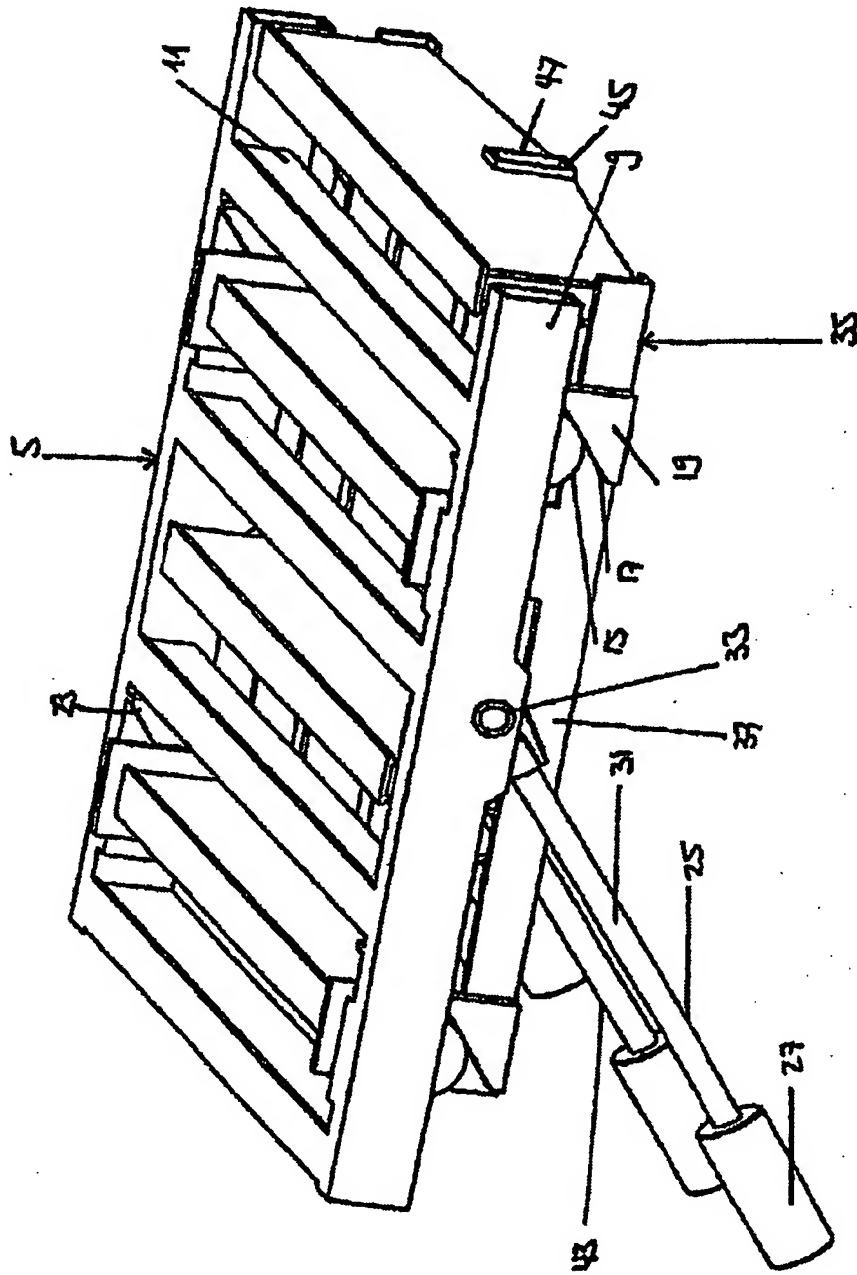


FIG. 3

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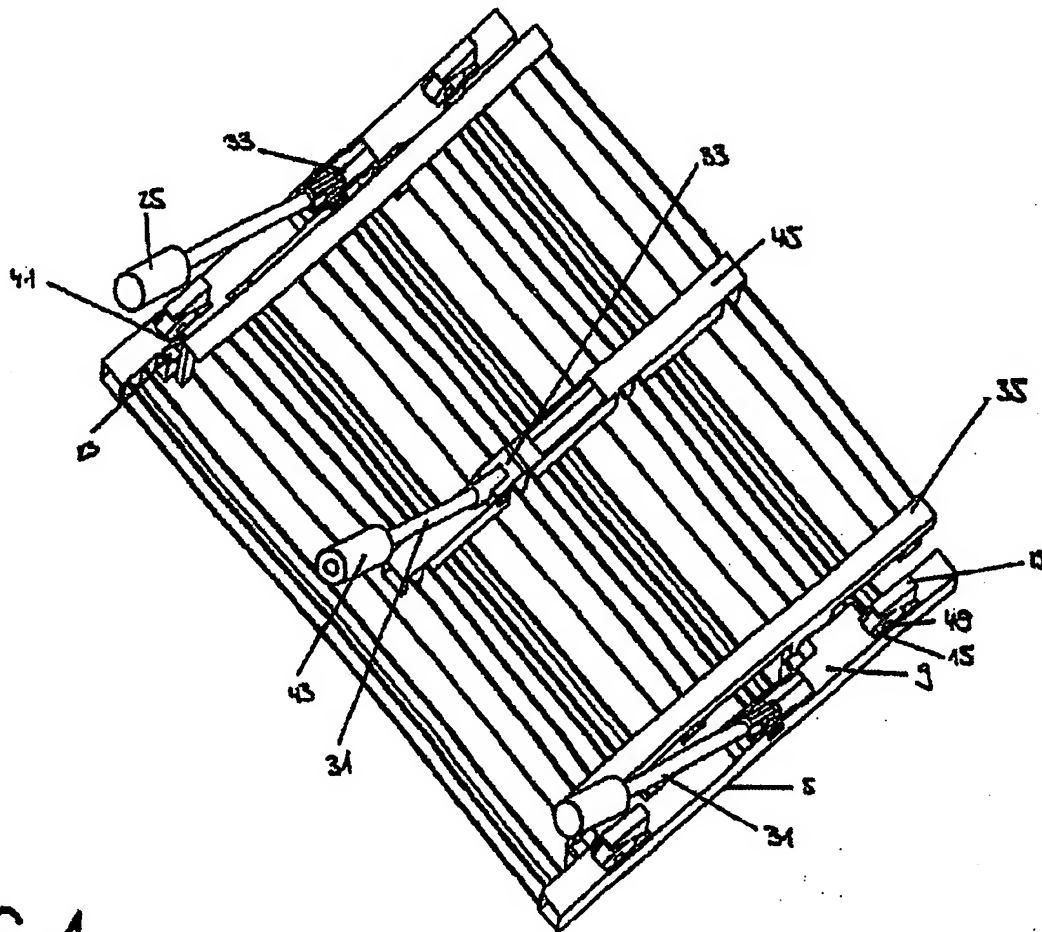


FIG. 4



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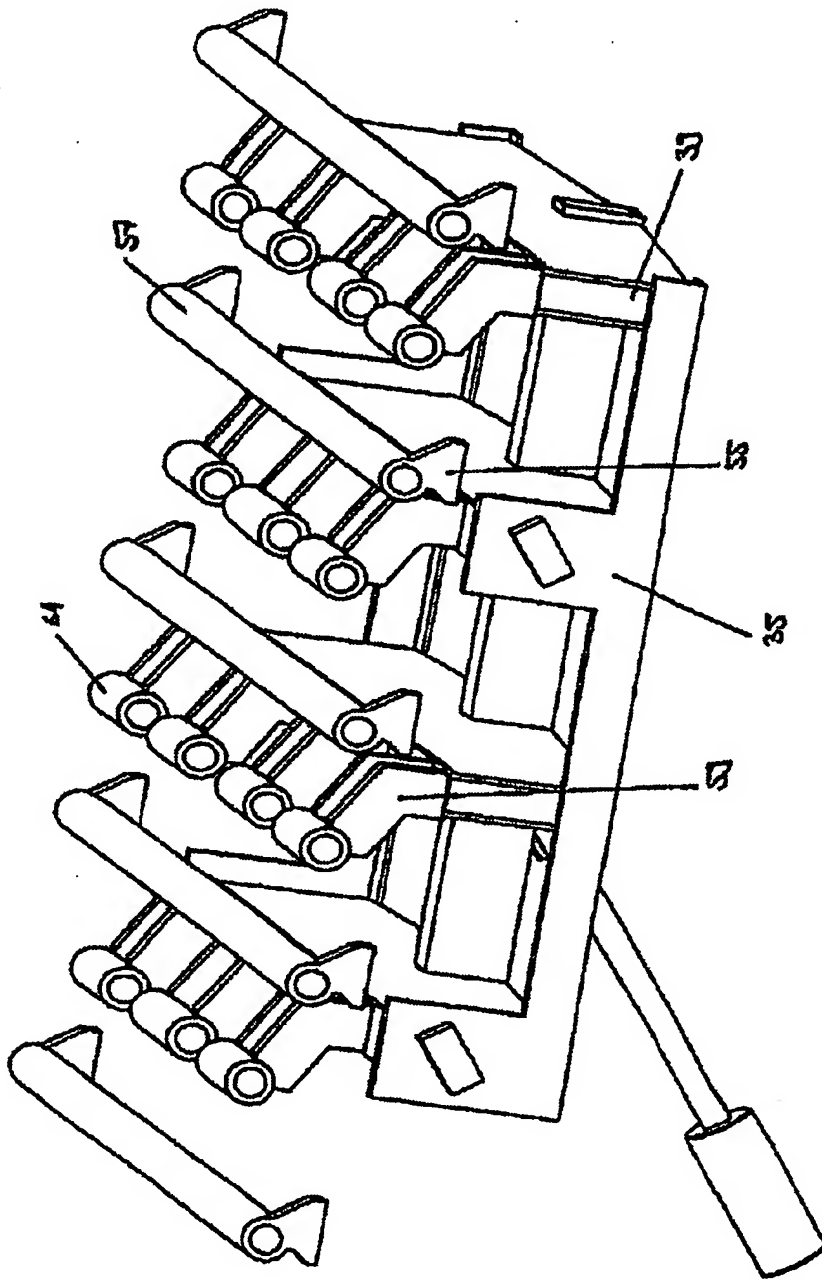


FIG. 6



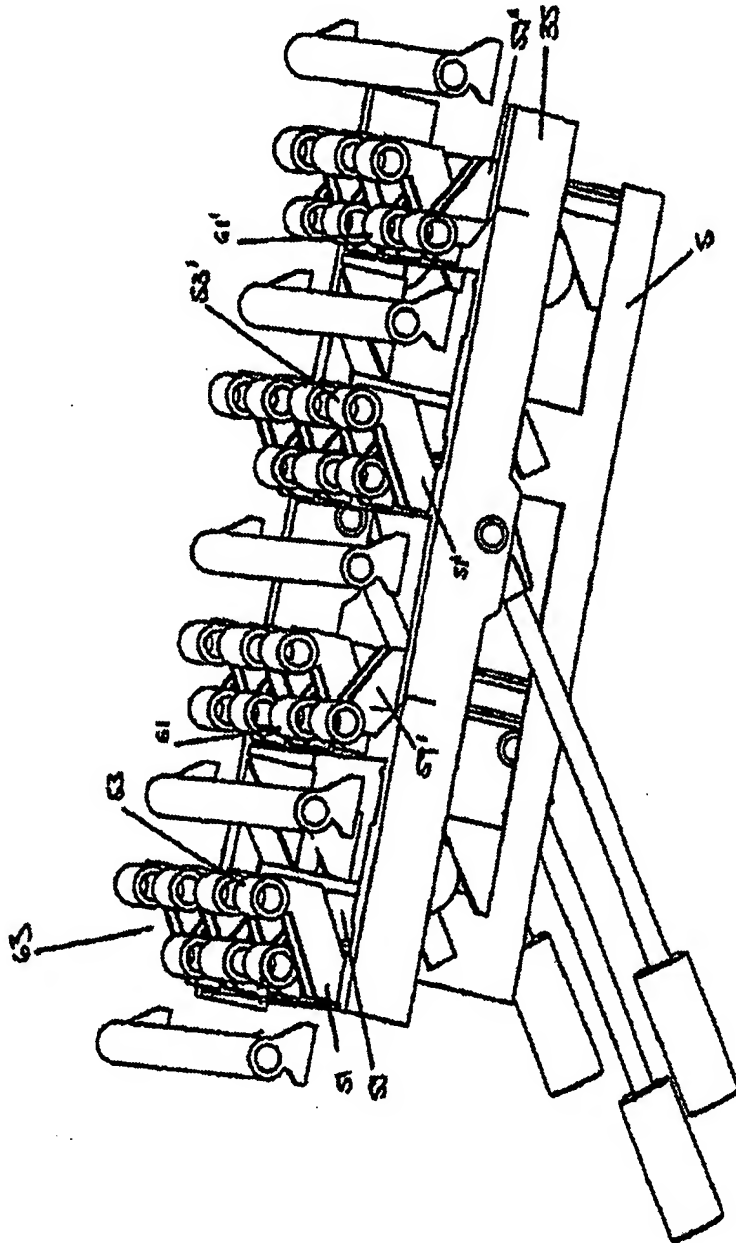


FIG. 7

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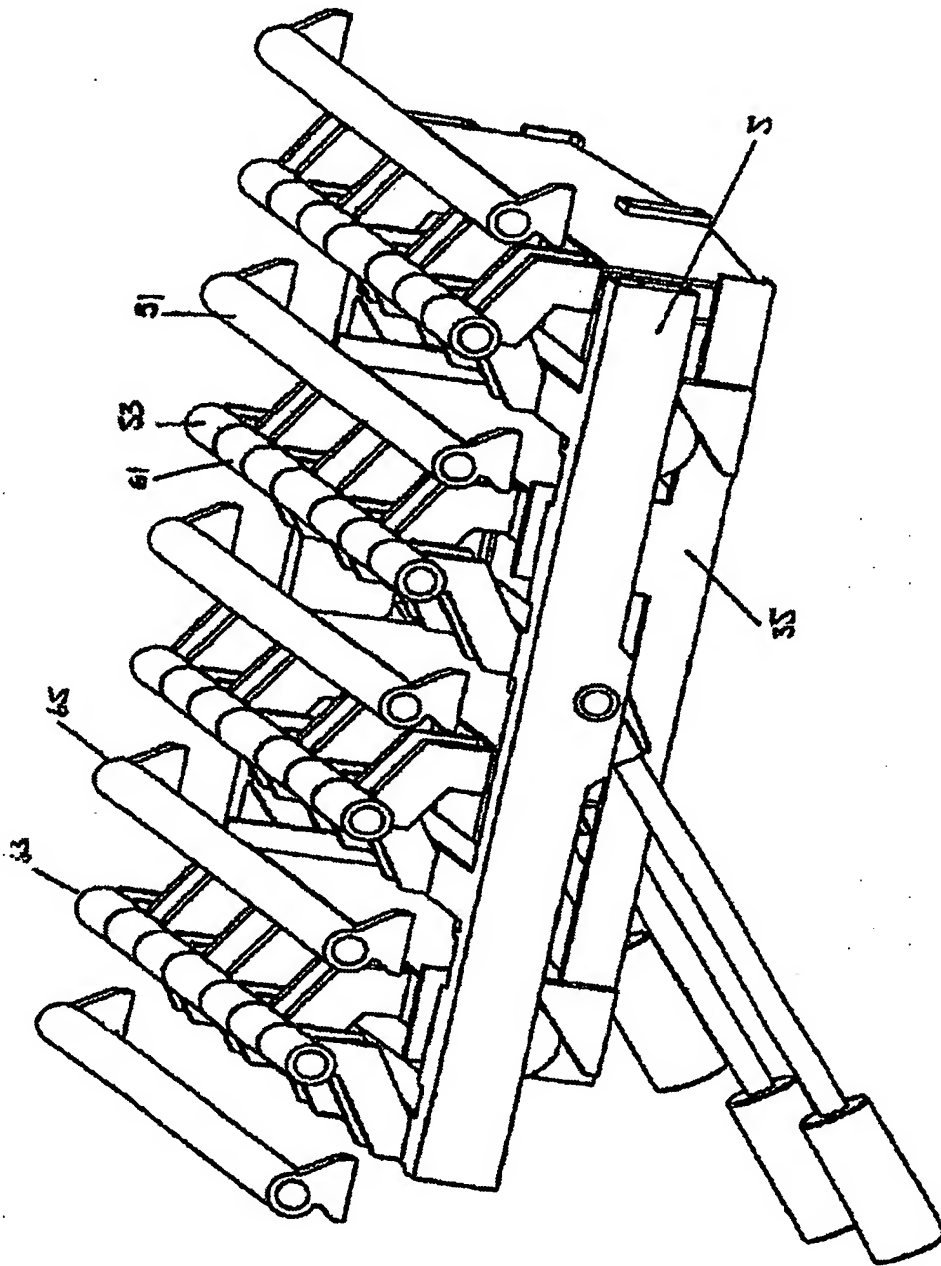


FIG. 8

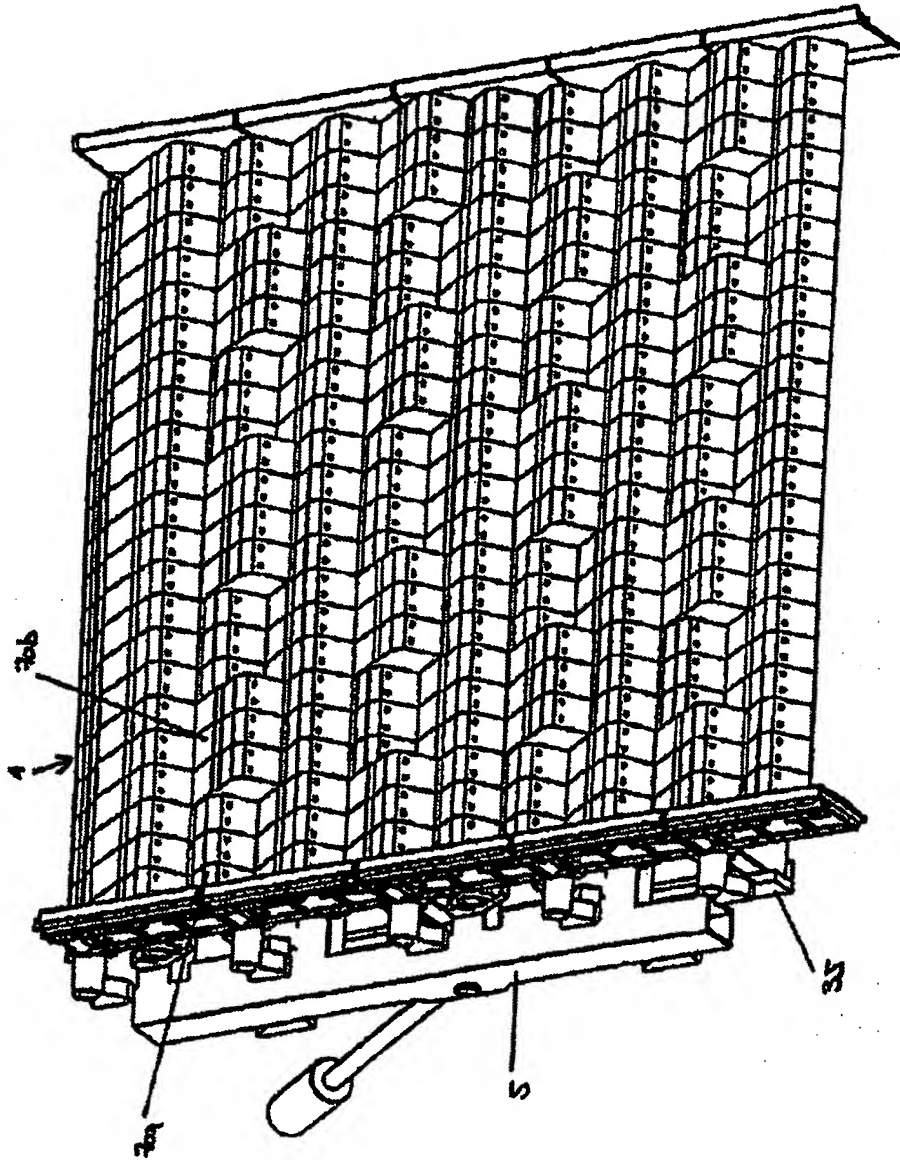


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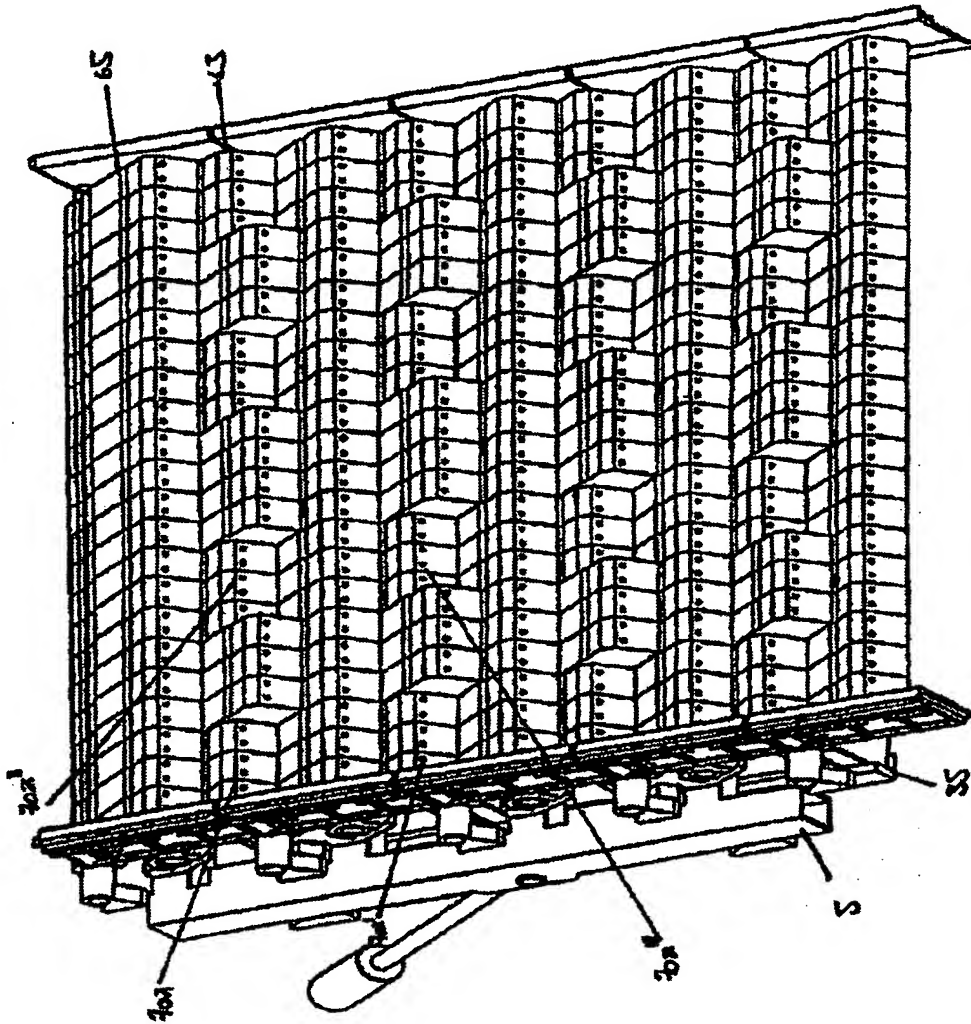


FIG. 12

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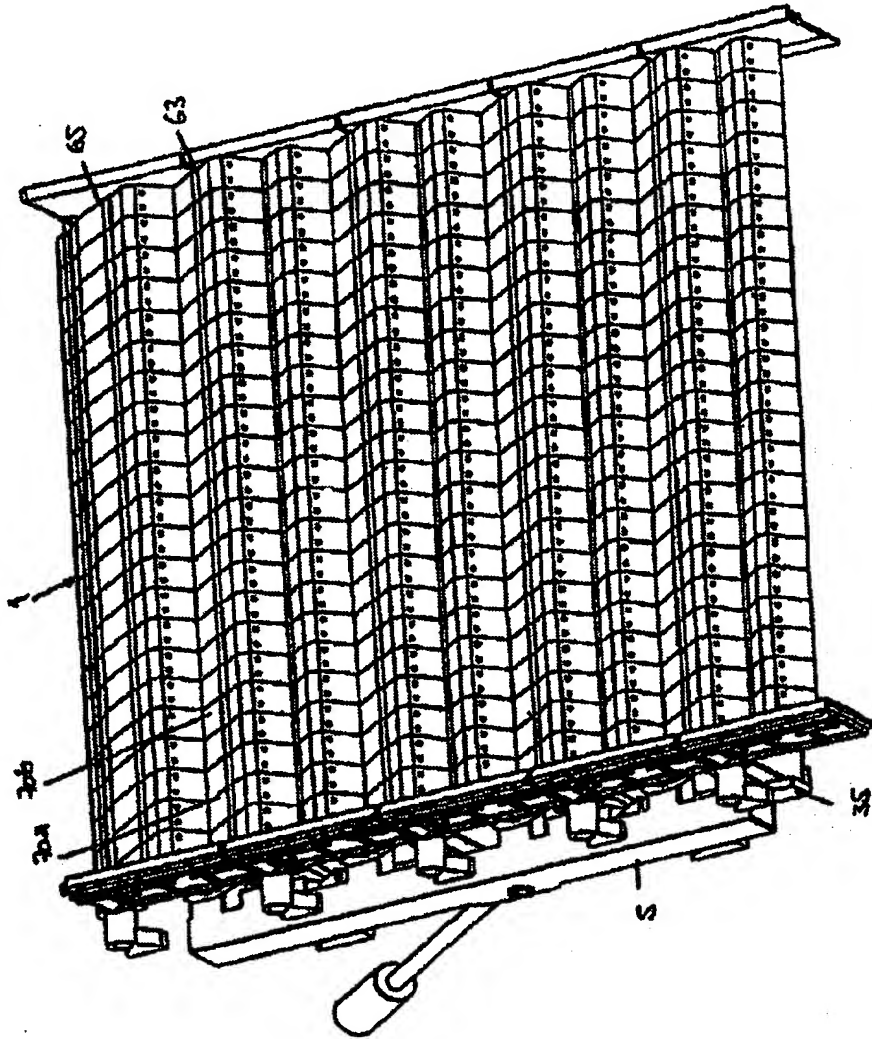


FIG. 13